



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0042292	ACI001-VC	2	1	Net 30	M304S11GA DAS 9 9-89	304/316 0.125 Sheet : MATERIAL : AISI 304/316 SS SHEET ANNEALED AS PER MIL- S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240				32	2/8/2019	32		S152145	Stock	2/8/2019	\$ 15.54 / sf	0		\$497.20	Acier Ouellette Inc.
		3			M304S16GA DAS 9 9-89	304/316 Sheet .063 : MATERIAL : AISI 304/316 SS SHEET ANNEALED AS PER MIL- S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240				192		192		S152146	Stock	2/8/2019	\$ 7.72 / sf	0		\$1,481.47	Acier Ouellette Inc.
		4			M6061T6S.032 DAS 9 9-89	6061-T6 Sheet 0.032" MATERIAL : 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				96		96		S152147	Stock	2/8/2019	\$ 3.69 / sf	0		\$354.06	Acier Ouellette Inc.

PO No	Line Supplier Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
	5			M6061T6S.040 DAS 9 9-89	6061-T6 .040 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				240		240		S152150	Stock	2/8/2019	\$ 4.71 / sf	0		\$1,129.53	Acier Ouellette Inc.
	6			M6061T6S.063 DAS 9 9-89	6061-T6 .063 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf						240		S152151	Stock	2/8/2019	\$ 3.30 / sf	0		\$791.33	Acier Ouellette Inc.
	7			M6061T6S.250 DAS 9 9-89	6061T6 Sheet .250 : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				32		32		S152152	Stock	2/8/2019	\$ 16.50 / sf	0		\$528.15	Acier Ouellette Inc.
	8			M6061T6S.080 DAS 9 9-89	6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				240		240		S152153	Stock	2/8/2019	\$ 8.95 / sf	0		\$2,146.80	Acier Ouellette Inc.



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042292



Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO042292

PO Date: 1/16/19

Due Date: 1/23/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: quote no.sou0155096

E-MAILED
JAN 16 2019

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		M304S26GA B/D		304/316 0.018 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf	Firmed	-	1/23/19	32 sf	0 sf	32 sf	\$5.8403125/sf	\$186.89
2		M304S11GA X 1 PD CZ		304/316 0.125 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed	-	1/23/19	32 sf	0 sf	32 sf	\$15.5375/sf	\$497.20
3		M304S16GA X 6 PD CZ		304/316 Sheet .063 : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed	-	1/23/19	192 sf	0 sf	192 sf	\$7.716/sf	\$1,481.47
4		M6061T6S.032 2 X PD 4 X 12 CZ		6061-T6 Sheet 0.032" : MATERIAL: 6061- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	-	1/23/19	64 sf	0 sf	64 sf	\$3.688125/sf	\$236.04

Plex 1/16/19 11:01 AM dart.lavoie.chantal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042292



Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5		M6061T6S.040		6061-T6 .040 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	-	1/23/19	288 sf	0 sf	288 sf	\$4.7063888/sf	\$1,355.44
		5x 10 4x12 C2						2405F 240xsfx FEB 08 2019				
6		M6061T6S.063		6061-T6 .063 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	-	1/23/19	160 sf	0 sf	160 sf	\$3.2971875/sf	\$527.55
		x5 10 4x12 C2						2405FX FEB 08 2019				
7		M6061T6S.250		6061T6 Sheet .250 : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	-	1/23/19	32 sf	0 sf	32 sf	\$16.504687/sf	\$528.15
								32xsf FEB 08 2019				
8		M6061T6S.080		6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	-	1/23/19	224 sf	0 sf	224 sf	\$8.945/sf	\$2,003.68
		2 10 5x4x12						2405FX FEB 08 2019				
9		M2024T3S.050		2024-T3 .050 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209	Firmed	-	1/23/19	48 sf	0 sf	48 sf	\$17.05938/sf	\$818.85
		B/O										
10		M5052H32S.040		5052-H32 .040 Sheet : MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209 receive sf	Firmed	-	1/23/19	32 sf	0 sf	32 sf	\$4.65/sf	\$148.80
		B/O										



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

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PURCHASE ORDER

PO042292



Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
11		M1010S.125		1010-1025 Sheet .125 : AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W NO SCALE ON SHEET MINIMUM YIELD TENSILE STRENGTH= 28KSI MINIMUM ULIMATE TENSILE STRENGTH= 42KSI COLD ROLLED receive sf	Firmed	-	1/23/19	32 sf	0 sf	32 sf	\$5.4975/sf	\$175.92
									✓ 32sf	At 12/01/30		

Grand Total: \$7,959.99

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 1/16/19 11:01 AM dart.lavoie.chantal

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT**Copy**

CO00131244

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M**Delivery Route** 5**Customer N°** CLI0001056**Date** 2019/02/06**Delivery date** **2019/02/08****Your order N°** PO042292**Processed by** Elodie Viaud**Salesman** ELODIE VIAUD**Carrier** OUELLETTE VALLEYFIELD**Credit Terme** Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 SHEET SS 11G SS304-2B (4 X 8) FESS-11G483042B 3402 1' X 4' X 8' ✓ PO042292-LINE 2 HEAT: 648C	168.00	32.00	PI2_\$CLB		4' X 8'						
2 SHEET SS 16G SS304-2B (4 X 8) FESS-16G483042B 3419 6 X 4' X 8' PO042292-LINE 3 HEAT: YU187108	504.00	192.00	PI2_\$CLB		6 X 4' X 8'						
3 ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175 5 X 4' X 8' PO042292-LINE 6 HEAT: 6150987001	144.16	160.00	PI2_\$CLB		5 X 4' X 8'						
4 ALU PLATE 1/4 6061-T651 (4 X 8) PAL-14486061 4242 1 X 4' X 8' PO042292-LINE 7 HEAT: T651	117.12	32.00	PI2_\$CLB		1 X 4' X 8'						
PACKAGING		1.00	UN								
Note : ATTENTION: MILL TEST REQUIS											
CHINESE MATERIAL ACCEPTED FOR THIS ORDER											



DELIVERY - CLIENT

CO00131244

Product Description	Qty	Weight	UM	PCS NB			Internal Use Only						
				CMD	EXP	B/O	IN	I	S	C	OUT		
Conditions : All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.				Total Weight (Lbs) : 933.28									
				NIR : R-109516-6									
Prepared By:	Verified By:	Delivered By :	Time	Y				M	D	Date			
												Customer's Signature	



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

Copy

CO00130144

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N°

CLI0001056

Date

2019/01/29

Delivery date

2019/02/08

Your order N°

PO042292

Processed by

Elodie Viaud

Salesman

ELODIE VIAUD

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ALU SHEET .032 (20G) 6061-T6 (4 X 12) FEAL-0324126061 3096 2 X 4' X 12' PO0042292-LINE 4 HEAT: 01/0052338/2	43.39	96.00	PI2_\$CLB			2X4'X12'					
2 ALU SHEET .040 (18G) 6061-T6 (4 X 12) FEAL-0404126061 3121 6 X 4' X 12' PO0042292-LINE 5 TRANSIT ST-JEROME 6 FÉVRIER HEAT: 291069B3	162.14	288.00	PI2_\$CLB			6X4'X12'					
3 ALU SHEET .081 (12G) 6061-T6 (4 X 12) FEAL-0814126061 3195 5 X 4' X 12' PO0042292-LINE 8 TRANSIT ST-JEROME 6 FÉVRIER HEAT: 01/0089482/8	273.84	240.00	PI2_\$CLB			5X4'X12'					
Note: ATTENTION: MILL TEST REQUIS											


Note : ATTENTION: MHL TEST REQUIS

CHINESE MATERIAL ACCEPTED FOR THIS ORDER



DELIVERY - CLIENT

CO00130144

Product Description	Qty	Weight	UM	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
Conditions : All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.				NIR : R-109516-6							
Total Weight (Lbs) : 479.37											
Prepared By :	Verified By : 	Delivered By :	Time	Y M D				Date			
Customer's Signature											



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N6K1Z3
Canada

3462

FESS-11G48304213

METALLURGICAL TEST REPORT

PO, 14245
6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000 50267

Certificate: 368166 2 Mail To: Ship To: Date: 1/08/2018 Page: 1

Customer: 007036 016

Steel: 304
Finish: 2B

Your Order: 4500847537 NAS Order: DS 0013262 01 Corrosion: ASTM A262/15 A, 180Bend-O

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED; UNS 30400
ASTM A240/162, A480/16b, A666/15, ASME SA240/17, SA480/17, SA666/17
CHEM ONLY ON FOLLOWING ASTM: A276/17, A479/17, A484/16, A312/16
CHEM ONLY ON FOLLOWING ASME: SA312/13, SA479/13
AMS 5513J XMRK; MIL-S-5059D AMEND3 (X CROWN MEAS)
NACE MR0175/ISO 15156-3:2009 A, MR0103/07; QQS766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DFARS Compliant

Product Id	Coil #	Skid #	Thickness	Width	Weight	Length	Mark	Pieces	Commodity Code
02648C C	02648C C		.1200	48.0000	15.920	COIL		2	1 160009400

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)
Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/14a

HEAT	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
648C	US	.0442	18.1730	.4155	1.7665	.3340	.0509	8.1115	.0335	.0010
SI %										
.2490										

MECHANICAL PROPERTIES

Product Id#	Coil #	l d	UTS	20C	.2% YS	20C ELONG	% Hard	Tail
		c r	KSI	%-2"	RB	Hard		
02648C C	02648C C	F T	97.43	46.94	51.44	87.50	86.00	

email RECU LE -7 FEB. 2019

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

1/08/2018

SPECIFICATION CONTROL DRAWING

Line 2
M304S11GA

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240

FINISH:

FINISH IDENTIFIER
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 6
BUFFED No. 7
BUFFED No. 8

PART NUMBER:

M304S TT GA #P
GA

WHERE "TT" = GAUGE THICKNESS
WHERE "P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.09375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED
2015 FEB 04
ECN 15-122 9

D	ADDED GAUGES 0-7	AJS	15.01.06
C	DEFINED FINISH OPTION (ZN GB) AND EXAMPLE OF MATERIAL FIN WITH FINISH OTHER THAN 2B (ZN 85)	MB	12.09.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (ZN D6-1), ADD GAUGE REF (CB-1), REF PAR 08-020A	CP	09.06.01
A	NEW ISSUE	DS	01.09.24
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	AJS		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	15.01.06		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M304S
TITLE	304/316 SS SHEET
REV. D	SHEET 1 OF 1
SCALE	NTS
COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT BE NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304S11GA
 DATE: 19-02-08

PO / BATCH NO.: P0042292/S152145

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 32 sq/Ft
 QUANTITY INSPECTED: 32 sq/Ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 11 GA
 THICKNESS RECEIVED: .125"
 SHEET SIZE ORDERED: 4'x8'
 SHEET SIZE RECEIVED: 4'x8'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A240
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT# 648C
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE	N/A				
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>PD</u>	SIGNED OFF BY: _____		
DATE: <u>19-02-08</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

FESS-16G483042B

3419

52674

00V-51796
21622



C/O NO 6, E-DA RD., YANCHAO DIST.,
KAOHSIUNG CITY, TAIWAN, 82445

MILL TEST CERTIFICATE

Customer:

Steel Grade: AISI 304L

Date: 2018/07/05

Invoice No.: SQCAEW8501TE6

Surface Finish: 2B

Page: P02/P02

Goods: STAINLESS STEEL COLD ROLLED SHEETS

Specification: ASTM A240/A480

Certificate No.: PTTW028510TE6

Product ID	Chemical Composition (%)										Mechanical Properties					
	C	Si	Mn	P	S	Ni	Cr	N	Tensile Test			Hardness Test				
									Y.S. (Mpa)	T.S. (Mpa)	EL (%)	HRB	HV			
75S42322B-11	0.027	0.360	0.880	0.033	0.003	8.09	18.06	0.034				301	717	48.0	86	175
75S42322B-12	0.027	0.360	0.880	0.033	0.003	8.09	18.06	0.034				301	717	48.0	86	175
75S43214A-21	0.022	0.360	1.030	0.038	0.003	8.02	18.03	0.048				303	636	52.0	84	167
75S43214A-22	0.022	0.360	1.030	0.038	0.003	8.02	18.03	0.048				303	636	52.0	84	167
75S43214A-23	0.022	0.360	1.030	0.038	0.003	8.02	18.03	0.048				303	636	52.0	84	167
75S43214A-24	0.022	0.360	1.030	0.038	0.003	8.02	18.03	0.048				303	636	52.0	84	167
75S87502B-4	0.021	0.400	1.370	0.027	0.002	8.05	18.18	0.050				294	665	53.0	84	167
75S87502B-5	0.021	0.400	1.370	0.027	0.002	8.05	18.18	0.050				294	665	53.0	84	167
75S42264B-21	0.022	0.360	1.020	0.030	0.004	8.14	18.19	0.038				295	697	47.0	83	165
75S42264B-22	0.022	0.360	1.020	0.030	0.004	8.14	18.19	0.038				295	697	47.0	83	165
Product ID	Heat No.		SPEC SIZE							Remarks						
75S42322B-11	YU280004		12GA X 60" X 120"							REFERRING TO ASTM SPEC						
75S42322B-12	YU280004		12GA X 60" X 120"							PO NUMBER: 18-P-236						
75S43214A-21	YU280104		14GA X 48" X 96"							LC NUMBER: DC HMN812167						
75S43214A-22	YU280104		14GA X 48" X 96"							OBL NUMBER: KHHMTRJ7806						
75S43214A-23	YU280104		14GA X 48" X 120"							CONTAINER NUMBER: HLBUI783414						
75S43214A-24	YU280104		14GA X 48" X 120"							COUNTRY OF ORIGIN: TAIWAN						
75S87502B-4	L224LA10		14GA X 60" X 120"							YIEH CORPORATION LIMITED YIEH CORPORATION OF CA, DEPT.						
75S87502B-5	L224LA10		14GA X 60" X 120"													
75S42264B-21	YU187108		16GA X 48" X 96"													
75S42264B-22	YU187108		16GA X 48" X 96"													
			All total							360						

K.C.W.

We hereby certify that material described herein has been manufactured and tested with satisfactory results in accordance with the requirement of the above material specification.

K.C.W.

Heat: 75S42264B

SPECIFICATION CONTROL DRAWING

Line 3

M304S16GA

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240

FINISH:

FINISH IDENTIFIER
DART M-NUMBER IDENTIFIER
1P
2D
3P
4P
6P
7P
8P
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 6
BUFFED No. 7
BUFFED No. 8

PART NUMBER:

M304S TT GA #P
GA

WHERE "TT" = GAUGE THICKNESS
WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.08375	0.084 - 0.098
12	0.09375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED

2015 FEB 04

ECW IS: szz q

D	ADDED GAUGES 0-7.	AJS	15.01.06
C	DEEMED FINISH OPTION (ZN CR) AND EXAMPLE OF MATERIAL PN WITH FINISH OTHER THAN 2B (ZN B5).	MB	12.09.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (08-1), REF PAR 08-020A	CP	09.06.01
A	NEW ISSUE	DS	01.09.24
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	AJS		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	15.01.06		
DART AEROSPACE LTD			
HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304S			
REV. D SHEET 1 OF 1			
TITLE 304/316 SS SHEET			
SCALE NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304S16GA
 DATE: 19.02.03

PO / BATCH NO.: P0042292/S152146

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 192 sq/Ft
 QUANTITY INSPECTED: 192 sq/Ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 16 GA
 THICKNESS RECEIVED: .064
 SHEET SIZE ORDERED: 4'x8'
 SHEET SIZE RECEIVED: 4'x8'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A440
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT# YU187103
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>19.02.03</u>	SIGNED OFF BY: _____		
DATE: <u>19</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

30.96.

P46-206V.



Abnahmeprüfzeugnis 3.1 (EN 10204) **Inspection certificate – mill certificate**

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Nr.: 85264396 03 / 4

Rev. 0

Seite / page: 1 von / of 2

Datum / date: 2012 10 16

Hy 1
2P

Endkunde, Bestell-Nr. / Your cust., ord. no.:	Bestell Nr. / order no.:	C 65560 DEC
	Datum / date:	2012 06 14
	Auftragsbest. Nr. / order confirm. no.:	643017
	Datum / date:	2012 06 15
	Lieferschein Nr. / delivery note:	85264396
	Datum / date:	2012 10 31
	Akkreditiv Nr. / letter of credit no.:	
D377802 - D377803 - D377804		

Produkt/product:	Bedingungen/terms:
Form / form:	Techn. Lieferbedingungen / techn. spec.:
Werkstoff / material: 6061	AMS-QQ-A-250/11, 08.1997
Zustand / temper: T6	ASTM B 209 - 10
Dim. / dim: (inch): 0,032x48,00x144,00	AMS 4027N, 07.2008
Kundenartikel-Nr. / customer article no.:	ASME SB-209, 2011a
	Sondervorschrift / special terms:

AB-Pos. ord.-item.	BNr/Los/Tellies- Lot/No./Part	Guss-Nr. cast no.	Werkstoff- material	Kollo- pack no.	Gewicht netto weight net	Stk. pcs.
04	36194/01/00	01/0052338/2	6061	6430170020	3972,663 lbs	186
04	36194/01/00	01/0052338/2	6061	6430170021	3981,481 lbs	186
04	36194/01/00	01/0052338/2	6061	6430170022	3994,709 lbs	186

Chemische Zusammensetzung / chemical composition: [%] Gewichtsanteile / weight proportion (OES)											
Guss Nr. / cast no.	AMAG designation	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Sonstige Einzel
01/0052338/2	6061										
	actual	97,31	0,70	0,48	0,21	0,10	0,90	0,16	0,04	0,06	0,02
		Sonstige Summe									
	actual	0,05									

Zugversuch / Tensile test									
BNr/Los Lot/No.	Zustand temper	Richtung direction			Rm [ksi]	Rp0.2 [ksi]	A2" [%]		
36194/01	T6	LT			49,2	40,5	15		
36194/01	T6	LT			48,6	39,9	16		
36194/01	T6	LT			48,4	39,5	17		
36194/01	T6	LT			48,6	39,6	16		
36194/01	T6	LT			48,4	39,7	16		
36194/01	T6	LT			48,4	39,7	16		
36194/01	T6	LT			48,6	39,7	16		
36194/01	T6	LT			48,9	39,9	16		
36194/01	T6	LT			49,3	39,6	16		

AMAG rolling GmbH, Postfach 32, A-5282 Ranshofen, Österreich – www.amag.at
 AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshofen, Austria – www.amag.at

cast: 01/0052338/2



Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate – mill certificate

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, ENAS 9100, ISO 14001, NADCAP

Nr.: 85264396 03 / 4

Rev. 0

Seite / page: 2 von / of 2

Datum / date: 2012 10 16

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.
We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werkssachverständiger / factory specialist	E-Mail / e-mail
Josef Klampfer	j.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.
Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.

SPECIFICATION CONTROL DRAWING

Line 4

M6061T6S.032

△ PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION:
QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS-4025 OR 4027
OR ASTM B209

△ PART NUMBER: M6061T6S | XXX | X | W.WWW |
| THK | | WIDTH |

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

△ PREFERRED SIZE: .XXX BY 4FT BY 8FT FOR SHEET

RELEASED

2018 MAR 13 4
EJ 18-696

APPROVED

C	ADD PLATE AND T651 SPEC	ML	17.12.13
B	REFORMAT DWG, ADD B209 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	RF	01.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	ML		
CHECKED	NO		
MFG. APPR.	JFS		
APPROVED	HS		
DE APPR.	CP		
DATE	17.12.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6S			
SHEET 1 OF 1			
SCALE			
6061-T6 SHEET/PLATE SPEC NTS			
COPYRIGHT © 2001 BY DART AEROSPACE LTD. THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES FOR WHICH IT WAS DESIGNED AND NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6S.032
DATE: 19.02.03

PO / BATCH NO.: P0042292/S152147

MATERIAL CERT REC'D: yes
QUANTITY RECEIVED: 96 sq/Ft
QUANTITY INSPECTED: 96 sq/Ft
QUANTITY REJECTED: 0

THICKNESS ORDERED: .032"
THICKNESS RECEIVED: .032"
SHEET SIZE ORDERED: 4x12
SHEET SIZE RECEIVED: 4x12

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM B209
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT# 01/0052338/2
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE	N/A				
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>PD</u>	SIGNED OFF BY: _____		
DATE: <u>19.02.03</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in.

3121

AL 22316

**KAISER
ALUMINUM**

Trentwood Works

PO Box 15108, Spokane Valley WA 99215-5108

15000 E Euclid, Spokane Valley WA 99216

Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number

4535350

CUSTOMER PO NUMBER: U10930-2	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RUN/LOAD: 104441/5	GOV'T CONTRACT NUMBER:
KAISER ORDER NO: 1272653-2	SHIP DATE: 3-NOV-2018	ALLOY: 6061	CLAD: BARE	TEMPER: T6
PRODUCT DESCRIPTION: HT Flat Sheet				
WEIGHT SHIPPED: 4260 LB (1932.32 KG)	QUANTITY: 164 PCS EST.	TRUCK B/L #: 2077088	GAUGE: 0.0400 IN (1.0180 MM)	DIAMETER/WIDTH: 48.000 IN (1219.2 MM)
			LENGTH: 144.000 IN (3657.6 MM)	

MHU 2281785: LOT 291069B3: 164 pieces: *D784282***Certified Specifications**AMS 4027/RevN
CMMP 019/RevD~~ASME SB 209/Rev2010~~
CMMP 025/RevV

✓ ASTM B 209/Rev14

Test Code: 1511

Lot: 291069B3

Cast 528

Drop 18

Test Results
Ingot 1

Melted in USA

(ASTM E8/B557)
(EN 2002-1)Tensile: Temper
T6

Dir / # Tests

LT / 2 (Min:Max)

Ultimate KSI (MPA)

✓ 48.6 : 48.7
(335 : 336)

Yield KSI (MPA)

✓ 41.7 : 41.7
(288 : 288)

Elongation %

✓ 13.2 : 13.5



(ASTM E1251)

Chemistry:

Actual(wt%)

SI ✓

FE ✓

CU ✓

MN ✓

MG ✓

CR ✓

ZN ✓

TI ✓

V

ZR

TOT

OTHER ✓

0.72 ✓

0.5 ✓

0.32 ✓

0.10 ✓

1.0 ✓

0.19 ✓

0.18 ✓

0.03 ✓

0.01

0.00

0.03 ✓

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
6061												
MIN(wt%)	0.40	0.0	0.15	0.00	0.8	0.04	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

heat: 291069B3



Trentwood Works
PO Box 15108, Spokane Valley WA 99215-5108
15000 E Euclid, Spokane Valley WA 99216
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4535350

TEST NOTES

6061 sheet or plate certified to AMS 4025, AMS 4026, or AMS
4027 also meets applicable requirements of AMS-QQ-A-250/11
Rev.A.

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- * has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- * All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- * was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- * has been thermally processed in compliance with AMS 2772, where applicable.
- * is mercury free, within the limits of detection of ASTM E1215 (<1ppm).
- * is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- * is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- * is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- * is free of weld repair.
- * meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

Michael Peske, PT Lab Process Engineer

SPECIFICATION CONTROL DRAWING

Line 5

Model T6S.040

△ PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR ~~AMS-8995~~ OR 4027
OR ASTM B209

△ PART NUMBER: M6061T6S | XXX | X | W | WWWW |
THK | WIDTH |

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

△ PREFERRED SIZE: .XXX BY 4FT BY 8FT FOR SHEET

C	ADD PLATE AND T651 SPEC	ML	17.12.13
B	REFORMAT DWG. ADD B209 SPEC (ZN D8-1), REF PART 08-020A	CP	09.07.13
A	NEW ISSUE	RF	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	ML	DART AEROSPACE LTD
DRAWN	NO	NO	HAWKESBURY, ONTARIO, CANADA
CHECKED	JFS	HS	DRAWING NO. M6061T6S
MFG. APPR.	CP	CP	SHEET 1 OF 1
APPROVED	CP	CP	TITLE 6061-T6 SHEET/PLATE SPEC
DE APPR.	17.12.13	17.12.13	SCALE NTS
DATE			

APPROVED

RELEASED
2018 MAR 13
2018-03-13

REV. C

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 S.040
 DATE: 19.02-08

PO / BATCH NO.: 80042292/8152150

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 240 sq/Ft
 QUANTITY INSPECTED: 240 sq/Ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .040
 THICKNESS RECEIVED: .040
 SHEET SIZE ORDERED: 4'x12'
 SHEET SIZE RECEIVED: 4'x12'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM B209
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT# 22105182 29106983
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 13 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AD</u>	SIGNED OFF BY: _____		
DATE: <u>19.02.08</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

3175

FEAL-064486061

TRA-3638
52527

MILL TEST/QUALITY CONTROL CERTIFICATE

ALNAN ALUMINIUM INC.

No.55 TingHong Road Nanjing, Guangd,530031,China

CUSTOMER

EMPIRE RESOURCES, INC.

ADDRESS

2115 LINWOOD AVENUE,2ND FLOOR,FORT LEE,NJ07024,USA

PRODUCT TYPE

PRIME ALUMINIUM COIL

DATE:February 20,2016

UNIQUE Lot Number	HEAT Number	Dimension (mm)	Dimension (inch)	Act Thick (mm)	Act Thick (inch)	Weight MT	Alloy	Temper	Al	Cu	Mg	Si	Fe	Mn	Zn	Ti	Cr	Elong (%)	UTS ksi	Yield ksi
Standard	Standard	0.940-1.626	0.037-0.064				6061	T6	remainder	0.15-0.40	0.8-1.2	0.40-0.8	0.7max	0.15max	0.25max	0.15max	0.04-0.35	10min	42.0min	35.0min
Standard	Standard	1.651-3.251	0.065-0.128				6061	T6	remainder	0.15-0.40	0.8-1.2	0.40-0.8	0.7max	0.15max	0.25max	0.15max	0.04-0.35	10min	42.0min	35.0min
Standard	Standard	3.277-6.325	0.129-0.249				6061	T6	remainder	0.15-0.40	0.8-1.2	0.40-0.8	0.7max	0.15max	0.25max	0.15max	0.04-0.35	10min	42.0min	35.0min
201602200119	6150987001	1.609*1719.2	0.063*48	1.535	0.060	4.193	6061	T6	remainder	0.25	0.98	0.60	0.25	0.11	0.07	0.02	0.24	14.0	47.7	41.5
The following blank																				

ORIGIN OF GOODS AS ALNAN ALUMINIUM INC.

ACTUAL MILL CHEMICAL AND MECHANICAL PROPERTY TEST REPORTS IN IMPERIAL NOMENCLATURE REQUIRED PER SKID

MATERIAL CONFORMS FOR ALLOY 6061, T6, AS PER ASTM B209-10, AMS QQA 250/11, AMS 4027 AND ALUMINUM ASSOCIATION STANDARDS-2009 IN ALL ASPECTS.

COUNTRY OF MELT AND MANUFACTURE-CHINA

Issued by

QA73

Reviewed by

QA77

广西南铝加工有限公司
ALNAN ALUMINIUM INC

/1

Heat: 6150987001

SPECIFICATION CONTROL DRAWING

Line 6

M6061T6S.063

△ PURCHASE MATERIAL: 6061-T6/62T6S1 ALUMINUM SHEET OR PLATE

SPECIFICATION:
Q-Q-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR 4027
OR ASTM B209

△ PART NUMBER: M6061T6S | XXX | X | W | WWW |
THK | WIDTH

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

△ PREFERRED SIZE: .XXX BY 4FT BY 8FT FOR SHEET

RELEASED

2018 MAR 13 4
REV 18-445

APPROVED

C	ADD PLATE AND T6S1 SPEC	ML	17.12.13
B	REFORMAT DWG, ADD B209 SPEC (ZIN D8-1).	CP	08.07.13
A	NEW ISSUE	RF	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	ML		
CHECKED	NO		
MFG. APPR.	JFS		
APPROVED	HS		
DE APPR.	CP		
DATE	17.12.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6S			
SHEET 1 OF 1			
REV. C			
6061-T6 SHEET/PLATE SPEC			
NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H6061T6S.063
 DATE: 19-02-03

PO / BATCH NO.: 80042292/S152151

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 240 25/Ft
 QUANTITY INSPECTED: 240 29/Ft
 QUANTITY REJECTED: 4

THICKNESS ORDERED: .063"
 THICKNESS RECEIVED: .064"
 SHEET SIZE ORDERED: 4'x12'
 SHEET SIZE RECEIVED: 4'x12'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM B209
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT# 6150987001
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AD</u>	SIGNED OFF BY: _____		
DATE: <u>19-02-03</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

4242

PAL-14486061

TRA-3462



西南铝业

产品质量证明书

52261

PRODUCT QUALITY CERTIFICATE

 编号: 00223201806000221
 Serial No:

订货单位 Customer		OLBERT METAL SALES LIMITED									
合同号 Contract No		140047090 SWA18-1207-01-01		产品名称 Product		预拉伸板		批号 Lot No		K2L9994	
合金状态 Alloy And Temper		6061-T651		规格(mm) Dimension		6.3500 * 1232 * 2451		箱数 Box Count		4	
技术标准 Technique Standard				ASTM B209M-2007				片数 Quantity		121	
化学成分标准 Chemical Composition Standard				ASTM B209M-2007				重量(kg) Weight		6,435.000	
机械性能 Mechanical Property											
状态 Temper	取样方法 Sampling Method	抗张强度(MPA) Tensile Strength		屈服强度(MPA) Yield Strength		延伸率(%) Elongation					
		标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value				
T651	横向	≥290	323-338	≥240	292-317	≥10	11.5-18				
---	---	---	---	---	---	---	---				
---	---	---	---	---	---	---	---				
弯曲 Curve	---	探伤 Ultrasonic		---		实际拉伸量 Actual Tension		---		---	
化学成分 Chemical Composition											
熔炼号 Melt No	元素 Element	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al
K210323	标准值 Standard Value	0.40-0.80	≤0.70	0.15-0.40	≤0.15	0.80-1.20	0.04-0.35	---	≤0.25	≤0.15	---
	实测值 Actual Value	0.67	0.3	0.24	0.07	0.9	0.15	---	0.02	0.01	余量
包层厚度(μm) Adhesion		晶粒度 Grain Size		杯突 Cup Bulge		硬度 Hardness		电导率 Conductance		Remainder	
标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value
---	---	---	---	---	---	---	---	---	---	---	---
高倍 Microstructure	合格	低倍 Macrostructure		氢含量(ml/100gAl) Hydrogen Content		标准值 Standard Value		---		---	
表面质量 Surface Control	合格	几何尺寸 Dimension Control		合格		实测值 Actual Value		---		---	
备注 Note	---										

质量、环境、职业健康安全分别通过ISO9001、AS9100、ISO14001、GB/T28001管理体系认证。
 声明：本产品符合订货标准和合同要求。

Quality, Environment and Professional Health & Safety Management System have Certified as per ISO 9001, AS9100, ISO14001 and GB/T28001.

Statement: The product conform to the requirements of order standard and contract.

检查员: YY-TUYH
 Inspector:

日期: 2018-06-
 Date:



西南铝业(集团)有限责任公司

SOUTHWEST ALUMINIUM (GROUP) CO., LTD.
 地址: 中国重庆南岸 Address: Xiang Town, Chongqing City, China 电话: (TEL): (008623) 65509566

heat: T651

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION:
QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS-4925 OR 4027
OR ASTM B209

△ PART NUMBER: M6061T6S-XXX X W.WWW
| THK | WIDTH |

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

△ PREFERRED SIZE: .XXX BY 4FT BY 8FT FOR SHEET

RELEASED
2018 MAR 13
EJ 18-665

APPROVED

C	ADD PLATE AND T651 SPEC	ML	17.12.13
B	REFORMAT DWG. ADD B209 SPEC (ZN D6-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	RF	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	ML		
CHECKED	NO		
MFG. APPR.	JFS		
APPROVED	HS		
DE APPR.	CP		
DATE	17.12.13		

DART AEROSPACE LTD
HARRISBURG, ONTARIO, CANADA

DRAWING NO. M6061T6S
SHEET 1 OF 1
TITLE 6061-T6 SHEET/PLATE SPEC
SCALE NTS

REV. C

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: AL6061 T6S.250
 DATE: 19/02/11

PO / BATCH NO.: P0042292/5152152

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 325F
 QUANTITY INSPECTED: 325F
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.250"
 THICKNESS RECEIVED: 0.250"
 SHEET SIZE ORDERED: 4'x8'
 SHEET SIZE RECEIVED: 4'x8'

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>ASTM B209</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>HT K2L9994</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> DATE: <u>19/02/11</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PAG 12GV

2 pages

Bestell Nr. / order no.:	5400373003-R01
Datum / date:	2017 11 07
Auftragsbest. Nr. / order confirm no.:	139337
Datum / date:	2017 11 08
Lieferschein Nr. / delivery note:	89085520
Datum / date:	2018 04 30

Produkt / product	Bedingungen / terms
Form / form: Sheet Werkstoff / material: 6061 Zustand / temper: T6 Dim. / dim.: (inch) 0,080x48,00x144,00 Kundenartikel Nr. / cust. article no.: ALFLR01650	Technische Lieferbedingungen / techn. spec.: AMS-QQ-A-250/11, 08.1997 ASTM B 209-14 AMS 4027N, 07.2008 ASME SB-209, 2015 Sondervorschrift / special terms:

AB-Pos. ord.-item.	BNr/Los Lot/No.	Teillos Part	Guss Nr. cast no.	Werkstoff material	Kollo packno.	Gewicht netto weight net	Stk. pcs.
02	10368/01	00	01/0089479/8	6061	1393370001	2967,372 lbs	55
02	43585/02	00	01/0089482/8	6061	1393370002	3999,118 lbs	74
02	43585/02	00	01/0089482/8	6061	1393370003	2270,723 lbs	42
02	44469/01	00	01/0089952/8	6061	1393370008	4003,527 lbs	74
02	44469/01	00	01/0089952/8	6061	1393370009	2323,633 lbs	43

Chemische Zusammensetzung ([%] Gewichtsanteile) / Chemical composition ([%] weight proportion (OES))											
Guss Nr. / cast no.	material	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
01/0089479/8	6061										
	spec. min.	0,40	-	0,15	-	0,80	0,04	-	-	-	-
	spec. max.	0,80	0,70	0,40	0,15	1,20	0,35	0,25	0,15	0,05	0,15
	actual	0,66	0,42	0,24	0,12	0,90	0,19	0,06	0,04	0,02	0,03
01/0089482/8	6061										
	spec. min.	0,40	-	0,15	-	0,80	0,04	-	-	-	-
	spec. max.	0,80	0,70	0,40	0,15	1,20	0,35	0,25	0,15	0,05	0,15
	actual	0,69	0,43	0,25	0,12	0,89	0,17	0,06	0,05	0,02	0,03
01/0089952/8	6061										
	spec. min.	0,40	-	0,15	-	0,80	0,04	-	-	-	-
	spec. max.	0,80	0,70	0,40	0,15	1,20	0,35	0,25	0,15	0,05	0,15
	actual	0,68	0,42	0,24	0,13	0,89	0,18	0,06	0,04	0,02	0,03

AMAG rolling GmbH, Postfach 32, A-5282 Ranshofen, Österreich - www.amag.at
AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshofen, Austria - www.amag.at

CstAr
Wgt.: 2,275.984 LB

1.: 2406208181
CstOr 5400416332
Date 09/05/2018

Tomas Sanchez

lot: 43585 / 02 cast: 01/0089482/8



Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 89085520 02 / 3
Rev.: 0
Seite / page: 2 von / of 2
Datum / date: 2018 03 27

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Zugprüfung LT / tensile test LT

BNr/Los	Zustand	Richtung	Tests		UTS	YS	A2"			
Lot/No.	temper	direction			[ksi]	[ksi]	[%]			
				spec.min.	42,0	35,0	10			
				spec.max.	-	-	-			
10368/01	T6	LT	2	from	48,4	40,6	15			
10368/01	T6	LT		to	49,0	41,0	16			
				spec.min.	42,0	35,0	10			
				spec.max.	-	-	-			
43585/02	T6	LT	2	from	49,3	41,6	15			
43585/02	T6	LT		to	49,5	41,9	16			
				spec.min.	42,0	35,0	10			
				spec.max.	-	-	-			
44469/01	T6	LT	2	from	49,0	42,2	14			
44469/01	T6	LT		to	49,2	42,5	15			

Sonstige Prüfungen / other tests

Biegeversuch: OK. / Transverse bend test: OK.
Maßkontrolle: OK. / Dimensional Check: OK.
Oberfläche: OK. / Surface inspection: OK.

Bemerkungen / notes

Gegossen und gefertigt in Österreich / Country of melt and manufactured in Austria

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.
We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werksachverständiger / factory specialist

Josef Klampfer

E-Mail / e-mail

josef.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.
Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.

AMAG rolling GmbH, Postfach 32, A-5282 Ranshofen, Österreich - www.amag.at
AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshofen, Austria - www.amag.at

Del.: 2406208181

CstAr

CstOr 5400416332

Wgt.: 2,275.984 LB

Date 09/05/2018

SPECIFICATION CONTROL DRAWING

Line 3

M6061T6S.080

△ PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS-4925-GR-4027
OR ASTM B209

△ PART NUMBER: M6061T6S | XXX | X | W | WWW |
| THK | | WIDTH |

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

△ PREFERRED SIZE: .XXX BY 4FT BY 8FT FOR SHEET

C	ADD PLATE AND T651 SPEC	ML	17.12.13
B	REFORMAT DWG. ADD B209 SPEC (Z/N D8-1).	CP	09.07.13
A	NEW ISSUE	RF	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	ML	DART AEROSPACE LTD
DRAWN	NO	NO	HAWKESBURY, ONTARIO, CANADA
CHECKED	JFS	HS	DRAWING NO. M6061T6S
MFG. APPR.	CP	CP	SHEET 1 OF 1
APPROVED	17.12.13	DATE	6061-T6 SHEET/PLATE SPEC
DE APPR.	17.12.13	DATE	SCALE NTS

RELEASED

2018 MAR 13 4
EJS 18-495

APPROVED

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061768.030"
 DATE: 19-02-03

PO / BATCH NO.: 10042292/5152153

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 240 sq/Ft
 QUANTITY INSPECTED: 240 sq/Ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .030"
 THICKNESS RECEIVED: .030"
 SHEET SIZE ORDERED: 4'x12'
 SHEET SIZE RECEIVED: 4'x12'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM B209
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	WT# 01/0099432/8
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>D</u>		SIGNED OFF BY: _____	
DATE: <u>19-02-03</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in